

WHAT IS CLAIMED IS:

1. A rechargeable electrochemical cell comprising:

an anode and a cathode in ionic communication via a separator and in fluid communication via one or more tubes or apertures, wherein the one or more tubes or apertures provide sufficient ionic resistance thereby preventing shorting between the electrodes while allowing

5 liquid solvent to flow therebetween.

2. The rechargeable electrochemical cell as in claim 1, wherein the anode is metal and the cathode is an air diffusion cathode.

3. A nickel-zinc rechargeable electrochemical cell as in claim 1.

4. A nickel-iron rechargeable electrochemical cell as in claim 1.

5. The rechargeable electrochemical cell as in claim 1, further comprising a charging electrode positioned between the anode and the cathode.